

## **Engineering Notes for Morris Thin STWD TS**

**5/25/12**

### **A. Haul route roads:**

The haul routes for this contract are on National Forest System (NFS) roads 5842, 5842777, 5842784, 5842787, 5842820, 5842821 and 5842822 starting from the contract units and going to North Fork Siuslaw County Road and on to State Highway 126. Log haul has been appraised to Noti, OR. All units haul to State Highway 126 to the appraisal point of Noti, Oregon. All system roads are listed as non-key roads under the Siuslaw travel management and roads analysis.

Some road reconstruction of NFS roads 5842 is required with the contract.

Maintenance on this contract is contractor responsibility. All roads are aggregate surfaced roads and spot rock is included and appraised for.

### **B. System and temporary roads –season of haul, road protection and truck assist.**

See logging feasibility report (LFR) for details.

In general, all system and temporary roads identified for year round use are appraised for rock re-surfacing or spot rocking. Temporary roads to Landings 4E, 4G, 5A and 11A are appraised for all season haul. All other temporary roads are not due to condition and/or length.

System roads 5842, 5842777, 5842784, 5842787 and 5842821 have been appraised for placement of rock in water bars.

Road 5842 has also been appraised for the removal of the double earthen barricades at m.p 1.16. Mile posting begins at road 5800. Costs to remove barricades are displayed below under additional pre-haul maintenance and an additional 20 cubic yards of rock are displayed in the Spot Rock worksheet.

Road 5842777 has been appraised for an additional 10 cubic yards at m.p. 1.86 and 20 cubic yards at m.p. 2.94 due to soft spots in the roadbed. These costs are also displayed in the Spot Rock worksheet.

Road 5842820 has been appraised for additional cost for brushing. Costs are displayed below under additional pre-haul maintenance.

Road 5842 is gated locked at County Road 5070. A Forest Service key is needed to unlock the gate. The road is closed year round (as per NF Siuslaw EA) and may be signed for logging use only. Post contract closure at the south end of road 5842 will continue by using the existing locked gate. No earthen barricade should be installed for closure at the south end.

The Forest Service is cooperating with two private land owners who accesses property from the south end of NFS road 5842. Road 5842 post season haul will require drivable water bars (type II) from County Road 5070 to the junction of 5842777 to facilitate use by private land owners. The remaining section of road 5842 will receive non-drivable (type I) water bars.

### **C. Unit Notes:**

Unit 1: Temporary roads to Landing 1-A and 1-G have been appraised for removal of earthen barricades and are listed under Additional pre-haul maintenance costs below. Temporary road to Landing 1-G for this unit is headed north at the junction with the 5842 road. Haul was appraised to head north to the temporary spur for Landing 1-A, turn around and then proceed south. Temporary spurs to landing 1-D and 1-G were appraised for truck assist.

Unit 2: Temporary road to Landing 2-E for this unit is headed north at the junction with the 5842 road. Trucks are appraised to back out 295' to 5842 and then proceed south. It has been appraised additional rock to extend season of haul. It is listed under Temporary road costs.

Unit 3 – Temporary road to landing 3-B was appraised for truck assist the entire length. Temporary spur to landing 3-A was considered for truck assist but was determined not necessary.

Unit 4 – Temporary roads for Landing E & G for this unit require construction of an approach and have been appraised additional rock to extend season of haul. It is listed under Temporary road costs.

Unit 5 – Temporary road for Landing A for this unit requires construction of an approach and has been appraised additional rock for the approach and to extend season of haul. It is listed under Temporary road costs.

Unit 6 – System road 5842820 has been appraised for additional brushing cost and is listed under Additional pre-haul maintenance costs below.

Unit 7 – Temporary road Landing F for this unit requires construction of an approach and has been appraised for additional rock for the approach. It is listed under Temporary road costs.

Unit 11- Temporary road for Landing A for this unit was appraised for additional rock to extend the season of haul.

C. Pre and post contract operational status for the system roads:

Road #	Precontract status	Post contract planned status	Waterbars/berms
5842000, seg. 1	Non key road, closed	Non key road, closed	Type one, Berm
5842000, seg. 2	Non key road, closed	Non key road, closed	Type two, None
5842777, seg. 1	Non key road, closed	Non key road, closed	Type two, None
5842777, seg. 2	Non key road, closed	Non key road, closed	Type one, Berm
5842784	Non key road, closed	Non key road, closed	Type one, None
5842787	Non key road, closed	Non key road, closed	Type one, None
5842820	Non key road, closed	Non key road, closed	Type one, None
5842821	Non key road, closed	Non key road, closed	Type one, None
5842822	Non key road, closed	Non key road, closed	Type one, None

D. Log Haul Operating season and Haul routes.

Unit Number	Planned Haul Route	Engineering Log Haul Operating season *
1	5842 to Co. Rd. 1070 to Hwy 126 to Noti	All season system road/Dry season temporary roads
2	5842 to Co. Rd. 1070 to Hwy 126 to Noti	All season
3	5842 to Co. Rd. 1070 to Hwy 126 to Noti	All season system road/Dry season temporary roads
4	5842787 to 5842 to Co. Rd. 1070 to Hwy 126 to Noti	All season
5	5842 to Co. Rd. 1070 to Hwy 126 to Noti	All season
6	5842820 to 5842 to Co. Rd. 1070 to Hwy 126 to Noti	Dry season
7	5842784 to 5842 to Co. Rd. 1070 to Hwy 126 to Noti	All season system road/Dry season temporary roads
8	5842777 to 5842 to Co. Rd. 1070 to Hwy 126 to Noti	All season
9	5842 to Co. Rd. 1070 to Hwy 126 to Noti	All season
10	5842821 to 5842 to Co. Rd. 1070 to Hwy 126 to Noti	All season system road/Dry season temporary roads
11	5842822 to 5842 to Co. Rd. 1070 to Hwy 126 to Noti	All season

\* Dry season is June 15 – October 15

E. Additional Timber contract provisions:

All system roads will have a “R” C5.12 restriction suspending haul for 24 hours after a 1” minimum rain event.

F. Additional pre-haul maintenance costs appraised for:

- Removal of barricades on 5842 m.p. 1.16, Temp roads for Unit 1A & G . Excavator 3 hrs @ \$150/hr = **\$450.**
- Additional brushing cost for road 5842820 for ½ mile at \$800/mile for total additional cost of **\$400.**
- Minor excavation of approach Units 4 & 7. Excavator 2 hrs @ \$150/hr = **\$300.**
- Move in/out costs of equipment = **\$1,000.**

Roanna Tomlinson  
Project Engineer  
Siuslaw National Forest